

ABSTRACT OF THE DISCLOSURE

The present invention relates to a composite material comprising, by weight, the total being 100% : A) 40 to 90% of PVDF homopolymer or copolymer
5 crystallized essentially in the β form, B) 10 to 60% of a conductive filler, C) 0 to 40% of a crystalline or semi-crystalline polymer, D) 0 to 40% of a filler other than C, such that the crystals in the β form are nucleated on the surface of the particles of the conductive filler. This material is conductive with a resistance which is self-regulated by the temperature. It shows an increase in the resistance as a function of
10 the temperature (PTC or "*Positive Temperature Coefficient*" effect), so that the intensity stabilizes at an equilibrium temperature.